



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

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L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Francis L. Daniel
Regional Director

STATE WATER CONTROL BOARD ENFORCEMENT ACTION

SPECIAL ORDER BY CONSENT

ISSUED TO

the HAMPTON ROADS SANITATION DISTRICT, the cities of CHESAPEAKE, HAMPTON, NEWPORT NEWS, POQUOSON, PORTSMOUTH, SUFFOLK, VIRGINIA BEACH and WILLIAMSBURG; the counties of GLOUCESTER, ISLE OF WIGHT, and YORK; the JAMES CITY SERVICE AUTHORITY; and the town of SMITHFIELD

SECTION A: Purpose

This is a Consent Special Order issued under the authority of Va. Code § 62.1-44.15(8a) between the State Water Control Board and the Hampton Roads Sanitation District, the cities of Chesapeake, Hampton, Newport News, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg; the counties of Gloucester, Isle of Wight, and York; the James City Service Authority; and the town of Smithfield for the purpose of resolving certain alleged violations of environmental laws and regulations. This Order supersedes and replaces the Consent Special Order issued to the City of Hampton and the Hampton Roads Sanitation District on October 7, 2002.

SECTION B: Definitions

Unless the context clearly indicates otherwise, the following words and terms have the meanings assigned to them below:

1. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 62.1-44.7 and 10.1-1184.

2. "Code" means the Code of Virginia (1950), as amended.
3. "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Code § 10.1-1183.
4. "Director" means the Director of the Department of Environmental Quality.
5. "Discharge" means the addition of any pollutant or combination of pollutants, including untreated sewage, to surface waters from any point source, as defined in 9 VAC 25-31-10, et seq.
6. "Fiscal Year" means the fiscal year used by HRSD, the Hampton Roads Localities and the Commonwealth of Virginia, which runs from July 1 of one calendar year through June 30 of the following calendar year.
7. "Hampton Roads Localities" means the cities of Chesapeake, Hampton, Newport News, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg; the counties of Gloucester, Isle of Wight, and York; the James City Service Authority; and the town of Smithfield.
8. "Hampton Roads Locality" or "Locality" means one of the Hampton Roads Localities.
9. "HRPDC" means the Hampton Roads Planning District Commission, a political subdivision of the state. The purpose of planning district commissions, as set out in the Code of Virginia, Section 15.2-4297 is "...to encourage and facilitate local government cooperation and state-local cooperation in addressing on a regional basis problems of greater than local significance".
10. "HRSD" means the Hampton Roads Sanitation District, a political subdivision created by a 1940 Act of the General Assembly of Virginia and charged with the responsibility to provide sewage treatment services for the communities in the Hampton Roads metropolitan area.
11. "Order" means this document, also known as a Consent Special Order.
12. "Regional Office" means the Tidewater Regional Office of the Department of Environmental Quality.
13. "Regulations" means 9 VAC 25-31-10, et seq. - Virginia Pollutant Discharge Elimination System (VPDES) Permit Regulation.
14. "STP" means sewage treatment plant.

SECTION C: Findings of Fact and Conclusions of Law

1. HRSD owns and operates an interceptor sewer system, which includes both gravity and force mains, and nine (9) STPs, which serve the Hampton Roads area (HRSD System). Discharges of treated wastewater from the STPs into State waters are regulated by VPDES permits issued by the Board.
2. The Hampton Roads Localities individually own and operate sanitary sewer collection systems which collect sewage within their individual jurisdictional boundaries and deliver it to the HRSD System for treatment.
3. Although individually owned and operated, these sewage collection and treatment systems are physically interconnected at numerous locations to form a regional system with approximately 450,000 connections, 5,765 miles of gravity sewers, 1,496 pumping stations, and 692 miles of force mains. The regional system covers a 320 square mile service area, serves a population of over 1.6 million, and conveys and treats an average of over 165 million gallons of sewage each day.
4. Due to pipe breaks, electrical outages, infiltration and inflow, insufficient capacity in the collection, interceptor and treatment systems, and other factors, untreated sewage has been and is being discharged from various locations in the HRSD System and the individual sanitary sewer collection systems of the Hampton Roads Localities. The low-lying nature of the Hampton Roads region and corresponding high groundwater table, together with periodic widespread flooding in the region's urbanized areas are significant factors contributing to the discharge of untreated sewage.
5. Section 62.1-44.5.A of the Code and the Regulations at 9 VAC 25-31-50.A prohibit the discharge of sewage except as authorized by a permit issued by the Board. The Board has not issued HRSD or the Hampton Roads Localities permits authorizing said discharges of untreated sewage. Accordingly, the Board finds that HRSD and the Hampton Roads Localities have violated Va. Code § 62.1-44.5.A and 9 VAC 25-31-50.A.
6. For many years, HRSD and the Hampton Roads Localities have worked diligently and spent tens of millions of dollars testing and making repairs and improvements to their respective systems to minimize, and, where possible, prevent such unpermitted discharges of sewage. These efforts notwithstanding, however, unpermitted discharges of sewage continue to occur from the HRSD System and from the individual sanitary sewer collection systems of the Hampton Roads Localities. Accordingly, HRSD and the

Hampton Roads Localities have agreed to expand their efforts to include measures that are designed to address both the regional and individual sanitary sewer collection system capacity and performance conditions that continue to cause or contribute to unpermitted discharges of sewage.

7. HRSD, the Hampton Roads Localities, and the Board have agreed to a two-phased approach to this initiative.
8. The first phase is principally a data collection, evaluation and plan development program that consists of both regional and individual elements. The regional element will require the use of uniform standards to identify the infrastructure projects needed to provide the collection system, interceptor system and treatment capacity required to cost-effectively manage peak wet weather flows throughout the Hampton Roads sanitary sewer system. The individual element is designed to identify, characterize, and cost-effectively address conditions that contribute to unpermitted discharges. This element is also intended to provide for system repairs that require prompt attention.
9. The second phase will provide for the implementation of long-term capacity enhancement and sewer rehabilitation plans, including construction of the regional infrastructure projects and individual system improvements identified in this first phase.
10. To facilitate a coordinated regional approach and to establish a consistent and uniform framework for identifying and implementing regional and individual system improvements to be undertaken pursuant to this Order and during the second-phase of work, HRSD and the Hampton Roads Localities have developed Regional Technical Standards addressing the following: (1) data collection and flow monitoring, (2) Sewer System Evaluation Survey (SSES) planning, (3) sewer system condition assessment, (4) rehabilitation planning, (5) hydraulic modeling and performance assessment, (6) regional design guidelines, (7) regional operating guidelines, and (8) other technical requirements. HRSD and the Hampton Roads Localities have agreed to use the Regional Technical Standards as they proceed with the work and activities required by this Order. The Regional Technical Standards are attached and incorporated into this Order as Attachment 1.
11. HRSD and the Hampton Roads Localities also have concluded that the work and activities required by this Order can be efficiently implemented to achieve the most cost-effective solutions only through a coordinated effort involving the sharing of information and a cooperative approach to decision-making on matters that extend beyond their individual systems.

12. To facilitate the cooperative approach and coordinated effort so critical to the success of the regional initiative embodied in this Order and in future phases of sanitary sewer overflow ("SSO")-related work and activities, HRSD, the Hampton Roads Localities and the HRPDC have entered into a Memorandum of Agreement ("MOA"). The MOA is an enforceable contract, which among other things, defines the roles, responsibilities, and obligations of the parties to the Agreement related to consultation between and among the parties, the sharing of data and information between and among the parties, and compliance with the Regional Technical Standards. The MOA also establishes a dispute resolution process designed to quickly resolve any conflicts which might arise between and among the parties. The MOA is attached, but is not incorporated into this Order, as Attachment 2. HRSD and the Hampton Roads Localities agree to promptly provide the DEQ with notice of and any amendments to the Memorandum of Agreement.

SECTION D: Agreement and Order

By virtue of its authority in Code § 62.1-44.15(8a), the Board orders HRSD and the Hampton Roads Localities, and they hereby agree, to undertake and complete the following actions:

1. HRSD shall perform the actions described in Appendix A to this Order.
2. The Hampton Roads Localities shall perform the actions described in Appendices B through N identified below to this Order.
3. Regional Wet Weather Management Plan.

In cooperation with the other parties to this Order, HRSD and the Hampton Roads Localities shall jointly develop, and within 74 months of the effective date of this Order, submit to the DEQ for approval, a final Regional Wet Weather Management Plan. The Plan shall be based on data collected from the flow and pressure meters and the system model and shall analyze a full range of capital and operating alternatives designed to improve system performance and thereby reduce the occurrence of un-permitted discharges both short term and long term. The Plan shall identify, quantify, prioritize, and propose a schedule for implementing regional system enhancements and address the funding of such enhancements between HRSD and the Hampton Roads Localities. The Plan shall include short and long term operating plans to maximize available capacity in the system through effective and proactive operations.

4. HRSD and the Hampton Roads Localities shall comply with the Regional Technical Standards that are attached to and incorporated into this Order as Attachment 1.
5. All submittals required by this Order shall be mailed to: Department of Environmental Quality, Tidewater Regional Office, 5636 Southern Blvd., Virginia Beach, VA 23462 Attn: Francis L. Daniel, Regional Director, or his successor.

SECTION E: Administrative Provisions

1. The Board may modify, rewrite or amend any provision of this Order on its own motion after notice and opportunity to be heard. On motion of any party, with the consent of all the parties to this Order and for good cause shown, the Board may modify, rewrite or amend the provisions of Sections D.3 and D.4. above. The Board may modify, rewrite or amend other individual obligations of HRSD or a Locality imposed in the Appendices hereto on motion of that party for good cause shown.
2. This Order addresses and resolves all system overflows and releases within the HRSD sewer system serving the Hampton Roads Localities and those overflows and releases from the sewer systems owned by the Hampton Roads Localities and known or reported to the DEQ up to the date of execution of this Order by HRSD or the Hampton Roads Localities. In consideration of the commitments made herein to address and prevent future overflows and releases, no penalties are imposed at this time. This Order shall not preclude the Board or the Director from taking any further action authorized by law, including but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the sewer systems as may be authorized by law; or (3) taking subsequent action to enforce the Order. This Order shall not preclude appropriate enforcement actions by other federal, state, or local regulatory authorities or citizen's suits against the Hampton Roads Localities for matters not addressed herein. However, the Order shall preclude any actions against the Hampton Roads Localities which are barred by Clean Water Act § 309(g), as provided by Va. Code § 62.1-44.15 (8f), for all matters addressed herein.
3. For purposes of this Order and subsequent actions with respect to this Order, HRSD and the Hampton Roads Localities admit the jurisdictional allegations, but do not admit or deny the factual findings and conclusions of law contained herein. This Order is made by agreement and with the consent of the parties and does not constitute an admission of violation of any federal, state or local law, rule, regulation, certificate, permit, or standard.

4. HRSD and the Hampton Roads Localities consent to venue in the Circuit Court of the City of Richmond for any civil action taken by DEQ to enforce this Order.
5. HRSD and the Hampton Roads Localities declare they have received fair and due process with respect to the entry of this Order under the Administrative Process Act, Code § 2.2-4000, et seq., and the State Water Control Law, and waive their right to any hearing or other administrative proceeding authorized or required by law or regulation, or to judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of HRSD's or the Hampton Roads Localities' right to any administrative proceeding for, or to judicial review of, any action taken by the Board to terminate, change the terms of, or enforce this Order, or any other Board action that arises from the facts stated herein.
6. Failure by HRSD or any Hampton Roads Locality to comply with its respective individual obligations under the terms of this Order shall constitute a violation of an order of the Board by the party who fails to comply. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority or citizen's suits against the Hampton Roads Localities for matters not addressed herein. However, this Order shall preclude any actions against Hampton Roads Localities barred by Clean Water Act § 309(g), as provided by Va. Code § 62.1-44.15 (8f), for all matters addressed herein.
7. If any provision of this Order is found to be unenforceable for any reason, the remainder of this Order shall remain in full force and effect.
8. HRSD and the Hampton Roads Localities shall be responsible for failure to comply with their individual obligations under this Order unless compliance is made impossible by earthquake, flood, other act of God, war, strike, the actions of another party to this Order or such other occurrence beyond their control. Any party in noncompliance must show that such circumstances resulting in noncompliance were beyond its control and not due to a lack of good faith or diligence on its part. HRSD and the Hampton Roads Localities shall notify the Director of the Regional Office in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance with their individual obligations or cause noncompliance with their individual obligations under this Order. Such notice shall set forth:
 - a. the reasons for the delay or noncompliance;

- b. the projected duration of such delay or noncompliance;
- c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
- d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Director of the Regional Office within ten (10) working days of learning of any condition listed above, which the party intends to assert will result in the impossibility of compliance, shall constitute waiver of any claim of inability to comply with a requirement of this Order. Notwithstanding, the notification deadline shall be within five (5) working days if, given the nature of the force majeure event, waiting ten (10) working days would prejudice the Director's ability to assess the claimed force majeure event.

- 9. This Order is binding on the parties hereto, their successors in interest, designees, and assigns.
- 10. This Order shall become effective upon execution by the Director or his designee, HRSD and the Hampton Roads Localities. Notwithstanding the foregoing, HRSD and the Hampton Roads Localities agree to be bound by any compliance date, which precedes the effective date of this Order.
- 11. This Order shall continue in effect as to each party hereto until the Director or Board terminates the Order as to that party upon thirty (30) days written notice to the party or parties with respect to whom it is to be terminated. Provided such action meets the definition therein, a termination shall be a case decision within the meaning of Va. Code § 2.2-4019 and Rule 2A:2 of the Rules of the Supreme Court of Virginia. Termination of this Order, or of any obligation imposed in this Order, shall not operate to relieve HRSD and the Hampton Roads Localities from their respective obligations to comply with any statute, regulation, permit condition, other Order, certificate, certification, standard, or requirement otherwise applicable.
- 12. The requirements in each appendix to this Order are the individual obligations of the party named in the appendix, and no party shall be liable for noncompliance with the requirements in the appendix of another party.
- 13. By entering into this Order, HRSD and the Hampton Roads Localities do not waive any defenses or immunities available to them at law, including, but not limited to, those set forth in Section 15.2-970 of the Code of Virginia.

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Special Order by Consent
HRSD and Hampton Road Localities
Page 9 of 51

By their signatures below, HRSD and the Hampton Roads Localities voluntarily agree to the issuance of this Order and agree to be bound by the terms hereof.

Date: _____

By: _____
Francis L. Daniel

The terms and conditions of the Order are voluntarily accepted by HRSD.

Date: 6/14/07

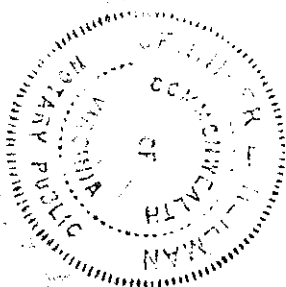
By: [Signature]
General Manager

Commonwealth of Virginia
City/County of Virginia Beach

The foregoing instrument was acknowledged before me this 14th day of June 2007 by
Edward G. Henifin, General Manager of HRSD, on behalf of HRSD.

[Signature]
Notary Public

My commission expires: August 31, 2009
ID # 361710



The terms and conditions of the Order are voluntarily accepted by:

Date: 6/20/07

By:

[Signature]
City Manager

Commonwealth of Virginia
City of Chesapeake

The foregoing instrument was acknowledged before me this 20 day of June by
William E. Harrell, City Manager, on behalf of the City of Chesapeake.

Wanda B. Futrell
Notary Public

My commission expires: 30 September 2011



Wanda B. Futrell
Commonwealth of Virginia
Notary Public
ID #188712

The terms and conditions of the Order are voluntarily accepted by:

Date: 6/26/07

By:

Jesse T. Wallace, Jr.
City Manager

Commonwealth of Virginia
City of Hampton

The foregoing instrument was acknowledged before me this 26th day of June, 2007,
by Jesse T. Wallace, Jr., City Manager, on behalf of the City of Hampton.

Donna L. Hodges
Notary Public

My commission expires: 7/31/2007

Approved as to Legal Sufficiency:

Wally James Lick
Chief Deputy City Attorney

The terms and conditions of the Order are voluntarily accepted by:

Date: June 25, 2007

By:

Randy Hildebrandt
City Manager

Commonwealth of Virginia
City of Newport News

The foregoing instrument was acknowledged before me this 26th day of June by
Randy Hildebrandt, City Manager, on behalf of the City of Newport News.

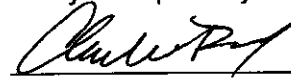
Pam R. Fisher
Notary Public

My commission expires: 8-31-2010

The terms and conditions of the Order are voluntarily accepted by:

Date: June 15, 2007

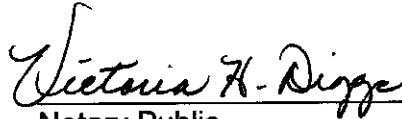
By:



City Manager

Commonwealth of Virginia
City of Poquoson

The foregoing instrument was acknowledged before me this 15th day of July 2007 by
Charles W. Burgess, Jr. City Manager, on behalf of the City of Poquoson.




Notary Public

My commission expires: 8-31-2008

The terms and conditions of the Order are voluntarily accepted by:

Date: 6-18-07

By:


City Manager

Commonwealth of Virginia
City of Portsmouth

The foregoing instrument was acknowledged before me this 18th day of June by
James B. Oliver, Jr., City Manager, on behalf of the City of Portsmouth.


Notary Public

My commission expires: 8/31/2008

The terms and conditions of the Order are voluntarily accepted by:

Date: 6/27/07

By: James G. Vacalis
James G. Vacalis, City Manager

Commonwealth of Virginia
City of Suffolk

The foregoing instrument was acknowledged before me this 27th day of June, 2007,
by James G. Vacalis, City Manager, on behalf of the City of Suffolk.

Tracey L. Sampson
Notary Public

My commission expires: October 31, 2009

Date: June 27, 2007

Attest: Erika S. Dawley
Erika S. Dawley, City Clerk

The terms and conditions of the Order are voluntarily accepted by:

Date: June 28, 2007

By:

James K. Spore
City Manager

Commonwealth of Virginia
City of Virginia Beach

The foregoing instrument was acknowledged before me this 28th day of June by
James K. Spore, City Manager, on behalf of the City of Virginia Beach.

VP Boykis
Notary Public

My commission expires: 08/31/08

Approved as to Content:

Jim Leahy III
Department of Public Utilities

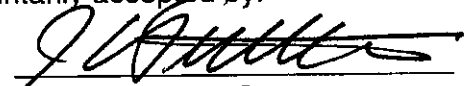
Approved at Legal Sufficiency:

William M. Macale
City Attorney's Office

The terms and conditions of the Order are voluntarily accepted by:

Date: June 15, 2007

By:


City Manager Jackson C. Tuttle

Commonwealth of Virginia
City of Williamsburg

The foregoing instrument was acknowledged before me this 15 day of June, ²⁰⁰⁷ by
Jackson C. Tuttle, City Manager, on behalf of the City of Williamsburg.


Notary Public

My commission expires: August 31, 2008

The terms and conditions of the Order are voluntarily accepted by:

Date: 6/14/07

By: Win 46
County Administrator

Commonwealth of Virginia
County of Gloucester

The foregoing instrument was acknowledged before me this 14th day of June by
William H. Whitley County Administrator, on behalf of the County of Gloucester.

Dale J. Surrall
Notary Public

My commission expires: May 31, 2010

The terms and conditions of the Order are voluntarily accepted by:

Date: June 14, 2007

By: W. Douglas Caskey
W. Douglas Caskey,
County Administrator

Attest:

Carey Mills Storm
Carey Mills Storm, Clerk

Approved as to form:

A. Paul Burton
A. Paul Burton, Interim County Attorney

Commonwealth of Virginia
County of Isle of Wight

The foregoing instrument was acknowledged before me this 14th day of June, 2007
by W. Douglas Caskey, County Administrator, on behalf of the County of Isle of Wight.

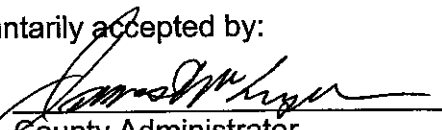
W. Douglas Caskey
Notary Public

My Commission Expires: 7/25/2007

The terms and conditions of the Order are voluntarily accepted by:

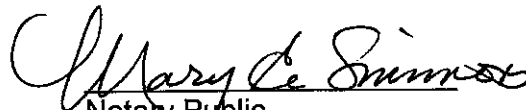
Date: 6-18-07

By:


County Administrator

Commonwealth of Virginia
County of York

The foregoing instrument was acknowledged before me this 18th day of June by
James O. McReynolds, County Administrator, on behalf of the County of York.


Notary Public

My commission expires:

July 31, 2009

NRN # 176618

The terms and conditions of the Order are voluntarily accepted by:

Date: 6/27/07

By: 
General Manager

Commonwealth of Virginia
James City Service Authority

The foregoing instrument was acknowledged before me this 27th day of June by
Larry M. Foster, General Manager, on behalf of the James City Service
Authority.


Notary Public

My commission expires: July 31, 2008

The terms and conditions of the Order are voluntarily accepted by:

Date: 6/5/2007

By:

[Signature]
Town Manager

Commonwealth of Virginia
Town of Smithfield

The foregoing instrument was acknowledged before me this 5th day of June by
2007, Town Manager, on behalf of the Town of Smithfield.

[Signature]
Notary Public

My commission expires:

9/30/2007

APPENDIX A

HAMPTON ROADS SANITATION DISTRICT

HRSD shall perform the following:

1. Flow and Rainfall Monitoring and Reporting System
 - a. On or before July 1, 2007, following consultation with the Hampton Roads Localities, submit to the DEQ for approval a plan and schedule for the installation of flow and pressure meters and rainfall gauges. Such plan shall be designed to measure sewage flow rates and total amounts delivered from each of the Hampton Roads Localities to the HRSD System, pressure conditions in HRSD's force mains and rainfall rates and total rainfall amounts from the regional rain gauge network. The Plan shall provide that the flow and rainfall monitoring and reporting system will be installed, operational, and data will be available to localities within 30 months after the DEQ approves the plan. The approved plan and schedule shall become a requirement of this Order.
 - b. The available flow and rainfall data for the system shall be collected, analyzed and made available to the Hampton Roads Localities consistent with Attachment 1.
2. Integrated System Model. By the last day of the month that is 38 months after the effective date of this Order, develop and make available to the Hampton Roads Localities a regionally integrated, calibrated dynamic model describing the entire HRSD System, including rates and amounts of sewage delivered from the Hampton Roads Localities into the HRSD System. The model shall be developed in accordance with the Regional Technical Standards in Attachment 1 and shall be based on actual flow rate and pressure data recorded by the meters required under paragraph 1 and input hydrographs to be provided by the Hampton Roads Localities.
3. SSES Plan. By the last day of the month that is 15 months after the effective date of this Order, complete and submit to the DEQ for approval, a plan and schedule for conducting an SSES of the HRSD System and assisting the Hampton Roads Localities in the performance of their individual SSESs. The Plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSESs shall be completed in accordance with the approved schedule.
4. Interim Repairs to Existing Facilities. While the work required by the foregoing paragraphs is underway during the term of this Order, identify and repair those

interceptor system and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.

5. Interim System Improvements. Prior to implementation of the Regional Wet Weather Management Plan, any new or replacement interceptor system and treatment facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
6. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
7. Annual Reports. Submit annual reports to the DEQ on the status of the work required by Appendix A, with copies to the Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The reports shall be due on or before November 1 following the close of each fiscal year.
8. Management, Operations and Maintenance (MOM) Program. By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the HRSD sewer system and treatment plants and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

APPENDIX B

CITY OF CHESAPEAKE

The City of Chesapeake shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Chesapeake's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix B, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX C

CITY OF HAMPTON

- A. Pursuant to a Special Order by Consent dated October 7, 2002 with the Board and HRSD, Hampton has completed a number of SSO-related tasks, including installation of flow meters and the collection of flow data at a number of pump stations; pipeline and manhole inspection, testing and repair; and inflow removal. In performing the tasks required by this Appendix, Hampton shall receive credit for and need not duplicate or otherwise perform the tasks completed pursuant to the October 7, 2002 Order.
- B. The City of Hampton shall perform the following:
1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
 2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
 3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
 4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
 5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated, dynamic model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.

6. Management, Operations and Maintenance (MOM) Program. By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Hampton's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.
7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix C, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX D

CITY OF NEWPORT NEWS

The City of Newport News shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Newport News's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix D, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX E

CITY OF POQUOSON

The City of Poquoson shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Poquoson's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix E, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX F

CITY OF PORTSMOUTH

The City of Portsmouth shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Portsmouth's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix F, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX G

CITY OF SUFFOLK

The City of Suffolk shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Suffolk's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix G, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX H

CITY OF VIRGINIA BEACH

The City of Virginia Beach shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Virginia Beach's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix H, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX I

CITY OF WILLIAMSBURG

The City of Williamsburg shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the City's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the City of Williamsburg's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix I, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX J

COUNTY OF GLOUCESTER

The County of Gloucester shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the County's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the County of Gloucester's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix J, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX K

COUNTY OF ISLE OF WIGHT

The County of Isle of Wight shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the County's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the County of Isle of Wight's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix K, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX L

COUNTY OF YORK

The County of York shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the County's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the County of York's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix L, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX M

JAMES CITY SERVICE AUTHORITY

The James City Service Authority shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the County's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the James City Service Authority's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix M, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.

APPENDIX N

TOWN OF SMITHFIELD

The Town of Smithfield shall perform the following:

1. **SSES Plan.** By the last day of the month that is 15 months after the effective date of this order, complete and submit to the DEQ for approval, a plan for conducting an SSES of the Town's collection system. The plan shall conform to the Regional Technical Standards in Attachment 1. The approved plan shall become a requirement of this Order and the SSES shall be implemented in accordance with the approved schedule.
2. **Interim Repairs to Existing Facilities.** While the work required by paragraph 1 above is underway, identify and repair those sewer collection, force main and pumping station deficiencies that require prompt attention under the Regional Technical Standards in Attachment 1.
3. **Interim System Improvements.** Prior to implementation of the Regional Wet Weather Plan, any new or replacement collection system facilities will be designed and constructed in conformance with the Regional Technical Standards in Attachment 1.
4. **Cooperation with HRSD to Develop Regional Hydraulic Model.** Provide HRSD with sewer flow hydrographs for conditions of interest in accordance with the Regional Technical Standards in Attachment 1, pump curves and other information, and access to its facilities and property, as may be necessary for HRSD to install meters and gauges and perform its other obligations under Appendix A of this Order.
5. **System Hydraulic Model.** By the last day of the month that is 38 months after the effective date of this Order, develop a calibrated model of the locality's sanitary sewer system necessary to be used in conjunction with HRSD's Integrated System Model. The model shall be developed in accordance with the guidelines in Attachment 1.
6. **Management, Operations and Maintenance (MOM) Program.** By the last day of the month that is 15 months after the effective date of this Order, submit to DEQ for approval a MOM program that documents the MOM program elements used to manage the Town of Smithfield's sewer system and minimize SSOs. The MOM program shall include tangible parameters for assessing program implementation.

7. SSO Reports. Promptly report all sewage discharges in accordance with the Hampton Roads Sanitary Sewer Overflow Reporting System, as approved by the DEQ, Tidewater Regional Office.
8. Annual Report. Submit annual reports to the DEQ on the status of the work required by Appendix N, with copies to HRSD and the other Hampton Roads Localities. The reports shall reflect work and activities undertaken during the previous fiscal year and shall include a summary of the system benefits achieved during the year. The report shall be due on or before November 1 following the close of each fiscal year.